



Project Requirements

Client: Maitland City Council

Maitland City Council required a reliable solution to warn motorists of road closures near the Melville Ford Bridge during flood events. The challenge was to create a system that could be operated safely and efficiently, reducing the need for manual intervention by staff, particularly in hazardous conditions typical during closure events.. The solution also needed to ensure that motorists would not become complacent over time, making the signs visually distinct when activated.



APPROVED SIGN MANUFACTURER



CONTRACT NUMBER LGP114

Challenges

- **Safety Concerns:** The council needed to eliminate the risks associated with staff climbing ladders to operate traditional signs manually.
- **Visibility and Attention:** The sign needed to capture motorists' attention effectively, especially during dangerous conditions.
- **Remote Operation:** A system was required that could be controlled remotely to avoid the need for on-site operations.
- **Solar Power Feasibility:** The signs needed to operate autonomously, even in areas with limited sunlight during certain seasons, and function for days without sunlight, as could be expected during a flood event.

Solution

HIVIS Group designed and installed six connected LED-enhanced flood warning signs with the following features:

- **Custom Reflective Signage:** 2150mm x 2000mm, with black text on a reflective white background.
- **LED Components:** Two 135mm amber lanterns and an amber LED text box displaying "OPEN" or "CLOSED."
- **Remote Operation:** Web-controlled activation system accessible via computers, phones, and tablets, with an optional push-button activation.
- **Solar Power System:** Provides up to 5 days of autonomy in poor weather conditions.
- **Maintenance and Support:** 24/7 monitoring, preventive maintenance, and a customer portal for remote access and control.

Results

The advanced LED signs greatly improved road safety in the Maitland area. The remote operation and solar power ensured continuous functionality, while high-visibility LEDs for the "CLOSED" status reduced the risk of motorists ignoring warnings during floods.

Conclusion

This project showcased how advanced LED technology enhances road safety. The combination of remote control, solar power, and high visibility provided Maitland City Council with a reliable flood warning solution. The maintenance plan from HIVIS Group guarantees ongoing performance, with potential expansion to other flood-prone areas.



SOLAR
POWERED



CUSTOMISABLE
FACE GRAPHIC



REFLECTIVE
SIGN FACE



4G REMOTELY
UPDATABLE

